<u>Claim Listing</u> This listing of claims will replace all prior versions and listings of claims in the application:

1 - 63: (cancelled)

64. (currently amended) An pET-15b expression vector optimized for use in E. coli cells comprising a first nucleic acid sequence encoding a peptide extension for enhancing the solubility and proper folding of a protein or polypeptide of interest, wherein the encoded peptide extension is selected from the group consisting of: Peptide T7C (SEQ ID NO: 5), Peptide T7B (SEQ ID NO: 6), Peptide T7B1 (SEQ ID NO: 7), Peptide T7B2 (SEQ ID NO: 8), Peptide T7B3 (SEQ ID NO: 9), Peptide T7B5 (SEQ ID NO: 11), Peptide T7B6 (SEQ ID NO: 12), Peptide T7B7 (SEQ ID NO: 13), Peptide 10 T7B8 (SEQ ID NO: 14), Peptide T7B9 (SEQ ID NO: 15), Peptide T7B10 (SEQ ID NO: 16), Peptide T7B11 (SEQ ID NO: 17), Peptide T7B12 (SEQ ID NO: 18), Peptide T7B13 (SEQ ID NO: 19), Peptide T7A1 (SEQ ID NO: 21), Peptide T7A2 (SEQ ID NO: 22), Peptide T7A3 (SEQ ID NO: 23), Peptide T7A4 (SEQ ID NO: 24) and Peptide T7A5 (SEQ ID NO: 25), the expression vector further comprising a multiple cloning site for inserting, in-frame with said first nucleic acid sequence, a second

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nucleic acid sequence encoding said protein or polypeptide of interest, said protein or polypeptide having a carboxyland an amino- terminus, is inserted in frame with said first nucleic acid sequence, wherein expression of the first and second nucleic acid sequences yields a fusion protein consisting of the encoded peptide extension fused to the carboxyl-terminus of the protein or polypeptide of interest, and wherein the protein or polypeptide of interest exhibits poor solubility and/or improper folding when expressed in the absence of fusion to said peptide extension.

65 - 100: (cancelled)